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FORM PTO-1595 1-31-92

C-13.01

PATENT

101753844

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To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Hayami SUGIYAMA
Takashi KUBOTA
Hiroshi MATSUDA
Kazunori MASUKAWA
Yoshikazu MIYASHITA
Sigeyuki KAWAMURA

2. Name and address of receiving party(ies):

Name: SHINKO ELECTRIC CO., LTD.

Address: 2-14, Toyo 7-chome, Koto-ku,
Tokyo, 135-0016, JAPAN

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of Conveyance:

- Assignment
- Security Agreement
- Other
- Merger
- Change of Name

Execution Date: February 22, 2001

Additional name(s) and address(es) attached? Yes No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)
09/800,504

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:



22850

6. Total applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00
 Enclosed
 Authorized to be charged to deposit account

8. Deposit account number: 15-0030
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9. Statement and signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Marvin J. Spivak

Name of Person Signing

Registration Number: 24,913

Joseph A. Scafetta, Jr.

Signature

Joseph A. Scafetta, Jr.
Registration No. 26,803

June 13, 2001

Date

Total number of pages including this cover sheet: 3

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PATENT
REEL: 011893 FRAME: 0162

ASSIGNMENT OF APPLICANT

WHEREAS I (WE) Hayami SUGIYAMA, Takashi KUBOTA, Hiroshi MATSUDA, Kazunori MASUKAWA, Yoshikazu MIYASHITA and Sigeyuki KAWAMURA, of c/o SHINKO ELECTRIC CO., LTD., Ise Works, 100, Takegahana-cho, Ise-shi, Mie-ken, 516-0005 Japan, respectively, have invented certain new and useful improvements in:
THERMAL HEAD AND CONTROLLER FOR CONTROLLING THE SAME

for which an application for Letters Patent was executed on February 22, 2001 (Application No. 09/800,504 filed March 8, 2001), and

WHEREAS, SHINKO ELECTRIC CO., LTD., having a place of business at: 2-14, Toyo 7-chome, Koto-ku, Tokyo, 135-0016 Japan, (hereinafter referred to as "ASSIGNEE") is/are desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefore in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behalf of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, P.C. of Fourth Floor, 1755 Jefferson Davis Highway, Arlington, Virginia 22202 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

EXECUTED AT: Mie in Japan

Date February 22, 2001

Hayami Sugiyama.
Hayami SUGIYAMA

Date February 22, 2001

Takashi Kubota
Takashi KUBOTA

Date February 22, 2001

Hiroshi Matsuda
Hiroshi MATSUDA

Date February 22, 2001

Kazunori Masukawa
Kazunori MASUKAWA

Date February 22, 2001

Yoshikazu Miyashita
Yoshikazu MIYASHITA

Date February 22, 2001

Sigeyuki Kawamura
Sigeyuki KAWAMURA

Date _____

Date _____

Date _____
